

**Abstract**

5 This invention concerns the testing of the operational performance of X-ray facilities. It involves an image scanner having at least 16 bit greyscale capability to scan a processed X-ray film bearing a test image having known image features at known locations, to create an electronic version of the image. And a programmed computer to measure the optical density of selected of the known features of the electronic image, to calculate predetermined performance indicators, and to deliver a  
10 report of operational performance. It related in particular, but not exclusively, the performance of X-ray film processors. The invention includes a number of different aspects, including a test method and test system for testing the operational performance an X-ray facility, in particular an X-ray film processor.